



# Electronic signatures in healthcare

## Secure, efficient document workflows and archiving for healthcare services

Legally compliant electronic signatures and time stamps for:

medical reports, admissions documents, scanned paper files, laboratory findings, etc.

Legally compliant electronic files

Easy and convenient to use

Maximum probative value in digital form

Solutions compliant with:

Industry recommendations and guidelines issued by GMDS, BVMI, bvitg, CCEsigG and BVA

'Braunschweiger regulations'

'Schlierseer Memorandum'

### Digitalisation in healthcare is increasing

Digital medical records are conquering clinics and hospitals. However, they can only completely replace original, paper-based records if they are affixed with electronic signatures. These ensure the legally compliant electronic storage and archiving of management- and treatment-related documents.

Uses range from signing medical reports on individual workstations and the central, server-based signing of laboratory findings to patients signing documents on signature tablets. Signature solutions optimise document workflows, simplify work processes and increase efficiency – such as through the use of paperless archiving in healthcare services.

### Many documents require signatures

Documents require signatures in many specialist medical areas. When the documents are digitally processed, electronic signatures ensure their authenticity and integrity. This means that digital documents are much better protected against manipulation than their paper versions.

### Appropriate use of the signature process

In accordance with the type of application, for instance depending on whether existing paper files are being digitised or purely digital management processes deployed, different methods are appropriate for achieving legal compliance:

- Advanced signature, for example for non-critical pathological and radiological findings or non-critical laboratory findings
- Signature pad, for example when patients are required to sign treatment contracts or information sheets
- Qualified electronic signature, for example for signing treatment plans, medical reports and critical findings. It replaces the handwritten signature.

### Signing in hospitals is independent of electronic health professional and healthcare cards

The qualified signature certificate must be stored on a signature chip card. Standard, personal signature cards from accredited trust centres (e.g. D-TRUST, a subsidiary of Bundesdruckerei GmbH) can already be easily and securely used.

Doctors can also use, for example, the signature feature provided by the electronic health professional card (HPC). In addition to signature tablets, patients can also use their electronic identity card (nPA) with its signature feature.



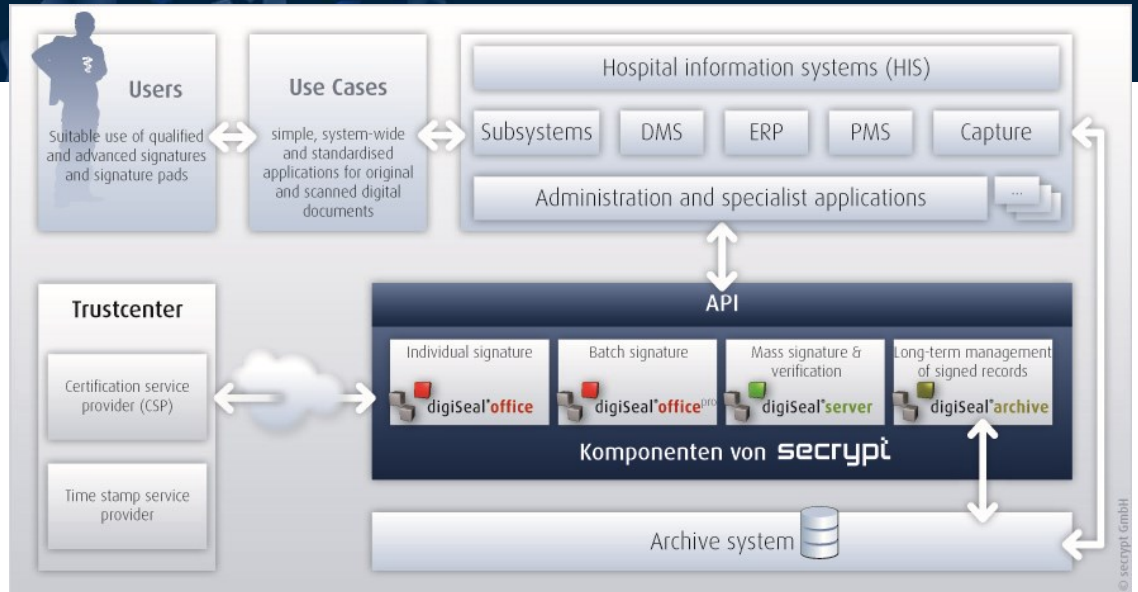
### Registering signature cards on the spot

Applying for and issuing signature cards can be time-consuming and should be ideally carried out in a timely and coordinated fashion.

With registration services, for example from D-TRUST, certified Web RA officers identify users on the spot, check the required documents and submit the applications to the trust centre. This avoids mistakes and saves the applicants unnecessary trips, time and costs. We would be pleased to assist you in finding a Web RA officer.

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## Basis for securely digitising and electronically archiving patient data



Among others, secrypt is involved in the following organisations and associations:



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Status as of: 2019/10/08

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### Complete solutions from a single source

secrypt's signature solutions are universally configurable and, via suitable interfaces, can be integrated into existing systems such as hospital information (HIS) and document management and archiving systems (DMAS). Users deploy the signature functions within their accustomed software environment.

All components are based on the digiSeal® range of products and are designed for heterogeneous IT land-

**digiSeal® office** Signature software for individual workstations for signing electronic documents with individual graphic signets, for example scanned-in doctors' signatures, crests and logos.

**digiSeal® server** Signature component for the server-based automatic generation and verification of large numbers of signed documents.

**digiSeal® archive** Software solution for preserving the long-term probative value of electronic archives (in accordance with the international LTANS/ERS standard).

### UseCases

#### Scenario 1:

##### Signing at workstations

for example, signing medical reports and critical laboratory findings with digiSeal®office or digiSeal®office pro

#### Scenario 2:

##### Patient signatures on admission

for example, on treatment contracts and information sheets using signature tablets with subsequent qualified signatures signed by hospital staff

#### Scenario 3:

##### Replacement scanning and signing

of original paper-based records including random sampling with digiSeal®office pro or digiSeal®server

#### Scenario 4:

##### Central automated signing

for example of non-critical laboratory findings with digiSeal®server

#### Scenario 5:

##### Securing the long-term probative value

of archived electronically signed documents using the efficient hash tree method and time stamps with digiSeal®archive